



# JACKIE ZHANG

I LOVE MAKING COOL  
STUFF

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## CONTACT

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PERSONAL: JACKIERW@UMICH.EDU



" He's a splendid chap ! "

## PROFILE

I am an undergraduate Computer Science student with over 3 years of programming and entrepreneurship experience. I am proficient in mobile and web development, also with a fair amount of knowledge in desktop application development, database design, machine learning and artificial intelligence. I love learning about new technologies and extremely passionate about what I do.

## WORK EXPERIENCE

### CTO AT BACKYARDPARKING.COM.

SAAS STARTUP | SEPT 2017 - NOW

- Founded and managed the dev team and led the development of the company's web application, backend infrastructures
- Directed and contributed in daily business transaction and proposal of the future development of the company

### WEB BACKEND DEVELOPER AT BEYOND REMARKABLE LLC.

STUDY AGENCY | JULY 2017 - NOW

- Developed a web backend system for the company's instant messaging application powered by NodeJS
- Collaborated with the mobile front-end developers to integrate required features and improve user experience.

### PROJECT MANAGER AT SOFFEE DESIGN INC

HOMEWARE E-COMM PLATFORM | APR 2017 - NOV 2017

- Recruited and managed a team of 4 professional web developers
- Developed the all-in-one transportation, inventory and sales management platform for the company.
- Created and fortified a SCRUM based development workflow for the tech team to enable consistent productivity even after I leave.

### FOUNDER OF REACTIVE XYZ

WEB & MOBILE DEV COMAPNY | AUG 2015 - NOW

- Managed daily business transactions and client relationship
- Led software development for most of the projects
- Initiated startup projects and managed the progress

### ASSISTANT DEVELOPER AT CRYTEK (INTERN)

GAME & GAME ENGINE COMPANY | JULY 2015 - AUG 2016

- Analysed competitors' game strategies and generated reports to supervisor.
- Helped develop CryEngine in workshops, specialising in generating API documentations and unit testing.

## RESEARCH EXPERIENCE

### SECURE CLOUD MANUFACTURING AT U OF MICHIGAN

MECHANICAL ENGINEERING LAB | DEC 2017 - NOW

- Analyzing and developing local area network intrusion detection algorithm by intercepting Ethernet/IP packets.
- Devising methods for hierachical defense of network attacks.

### GEMS LAB AT U OF MICHIGAN

GRAPH MINING & AI LAB | APR 2017 - NOW

- Developed a comprehensive graph mining web application for large-scale visualization with an automated processing pipeline.
- Analyzed email network data sets provided by local startups with graph mining techniques and generated insights for direction of improvement.

### FREE SPEECH TECHNOLOGY AT U OF MICHIGAN

NETWORK & COMMUNICATION SECURITY LAB | NOV 2016 - DEC 2017

- Led the development of the mobile application
- Devised and conducted research on network infrastructure and security protocols
- Explored the implication of power consumption for mobile Adhoc P2P communication to maximize utilization

## GROWTH

### ARTIFICIAL INTELLIGENCE

#### SPECIALIZING IN COMPUTER VISION

- Completed the 10-months Udacity AI Nanodegree.
- Programmed game agents using search with Alpha-beta pruning, ASL recognizer using Hidden Markov Model, Cargo Transportation Agent using Planning Graph and more.
- Programmed face detector using Haar Cascade, dog classifier using CNN, natural language generator using RNN.

#### SELF-DRIVING VEHICLE (ONGOING...)

- Created a German traffic sign classifier (+98.5% accu.) using CNN
- Developed a simulated self-driving car using CNN

## EDUCATION

### BACHELOR OF SCIENCE (GPA 3.75)

MAJOR: COMPUTER SCIENCE & DATA SCIENCE

MINOR: BUSINESS (INTENDED)

@ UNIVERSITY OF MICHIGAN | 2016 - 2020

### VCE, AUSTRALIA

ATAR 99.25 (TOP 0.75% NATIONALLY)

@ UNIVERSITY HIGH SCHOOL | 2012 - 2016

## SKILLS

PHP  
Objective-C & Swift  
Node JS  
Angular & VueJS  
Database (SQL/NoSQL)  
HTML5 + CSS3 (&SASS)  
Python  
GoLang  
C/C++  
C# & Java

Machine Learning  
Artificial Intelligence  
Project management  
Customer service  
Business management  
Market research  
Team management  
Workflow design  
Prototyping

## CERTIFICATIONS & AWARDS

UDEMY  
WEB DEVELOPER  
NOV 2015

EDUMOBILE  
IOS DEVELOPER  
NOV 2014

UDACITY  
NANO DEGREE (AI)  
AUGUST 2017

EDX/COURSERA  
MACHINE LEARNING  
JUNE 2016

COFFEE ART SCHOOL  
CERTIFIED BARISTA  
APRIL 2016

HUNTER-ED  
MICHIGAN HUNTING  
SEPT 2017

AUSTRALIA INFORMATION OLYMPIAD  
BRONZE  
NOV 2015

EECS 183 FINAL PROJECT  
GRAND FINAL PRIZE (1ST PLACE)  
NOV 2016

## OTHER STUFF

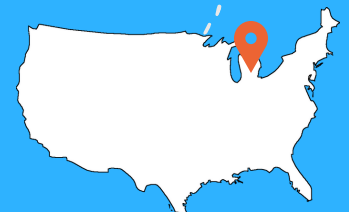
Besides technology, I am a casual music post-producer who is not quite good at any particular instruments. I also enjoy reading about politics, astrology, pathology and entrepreneurship when I want to take some time away from the computer :)



China  
Primary - Secondary  
School



Australia  
High School  
VCE



US  
University Of Michigan  
B.S. 2020  
Computer Science  
Cognitive Science